

Application No. 10/668,537
Docket No. 14374.106
Reply to Office Action mailed February 4, 2005

AMENDMENTS TO THE SPECIFICATION

1. Please replace paragraph [0033] with the following amended paragraph:

[0033] Finally, the vacuum enclosure 102 exemplarily includes a high emissivity inorganic coating on the exterior surfaces and a low emissivity coating on the interior surfaces. Among other things, this type of configuration contributes to a relative reduction in temperature of components contained within the vacuum enclosure. Specific details concerning the coating are provided below. In general however, the coating comprises a durable material that is adequate to withstand typical x-ray device operating conditions while providing effective and reliable protection of the vacuum enclosure 102, and/or any other components to which the coating is applied, from oxidation, corrosion, and other thermally related problems. In a high emissivity implementation, for example, the coating aids in the rejection of heat from the coated component, thereby contributing to a relative reduction in the temperature of the coated component. For example, a relatively high emissivity implementation may have an emissive coating with an emissivity of about 0.6 or higher.

2. Please replace paragraph [0034] with the following amended paragraph:

[0034] As suggested by the foregoing, it may be desirable, in other cases, to coat portions of the vacuum enclosure 102 and/or other components with a relatively low emissivity inorganic coating, so as to reduce or prevent the transfer of heat from the coated component to nearby systems and component. For example, a relatively low emissivity implementation may have an emissive coating with an emissivity of about 0.2 or lower. Accordingly, the scope of the invention should not be construed to be limited solely to coated x-ray device components that include a relatively high emissivity inorganic coating.

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3. Please replace paragraph [0055] with the following amended paragraph:

[0055] Additionally, "HPC/H05," or simply "H05," sold under the trademark HiPerCoat® and produced by HPC, is one example of a low emissivity coating that is well suited for use in applications where it is desired to minimize heat emission from the coated component. The HIPERCOAT® mark is a registered mark of HIGH PERFORMANCE COATINGS, INC. CORPORATION OKLAHOMA for use in connection with protective coatings for metals and the application of protective coatings for metals.